

FUJO 19.465
10/080,977In the Claims:

Please amend the claims as follows:

1. (currently amended): A mobile communications system in which first and second frequencies are allocated to each wireless communications area, comprising:

a first base station device provided in a first wireless communications area;

a second base station device provided in a second wireless communications area;

a third base station device provided in a third wireless communications area adjacent to the first and second wireless communications areas;

a first controller accommodating controlling said first base station device using the first and second frequencies and controlling communications conducted by said third base station device using the first frequency but not controlling communications conducted by said third base station device using the second frequency, and

a second controller accommodating controlling said second base station device using the first and second frequencies and controlling communications conducted by said third base station device using the second frequency but not controlling communications conducted by said third base station device using the first frequency.

2. (original): The mobile communications system according to claim 1, wherein when a mobile station using the first frequency in the first wireless communications area moves from the first wireless communications area to the third wireless communications area, said third base station device communicates with the mobile station using the first frequency.

3. (original): The mobile communications system according to claim 1, wherein when a mobile station using the second frequency in the first wireless communications area moves from the first

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wireless communications area to the third wireless communications area, said third base station device communicates with the mobile station using the second frequency.

4. (original): The mobile communications system according to claim 1, wherein when a mobile station using the first frequency in the third wireless communications area moves from the third wireless communications area to the first wireless communications area, said first base station device communicates with the mobile station using the first frequency.

5. (original): The mobile communications system according to claim 1, wherein when a mobile station using the second frequency in the third wireless communications area moves from the third wireless communications area to the first wireless communications area, said first base station device communicates with the mobile station using the first frequency.

6. (original): The mobile communications system according to claim 1, wherein said third base station device is connected to said first controller via a first transmission line and is connected to said second controller via a second transmission line.

7. (original): The mobile communications system according to claim 1, wherein said third base station device and said second controller are connected via a physical transmission line, said second controller is connected to said first controller via a switching device, and said third base station device is accommodated in said first controller with a logical path established via said second controller and the switching device.

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8. (currently amended): A mobile communications system, comprising:

a first base station device provided in a first wireless communications area to which at least a first frequency is allocated;

a second base station device provided in a second wireless communications area to which at least a second frequency is allocated;

a third base station device provided in a third wireless communications area, which is adjacent to the first and second wireless communications areas and to which the first and second frequencies are allocated;

a first controller ~~accommodating~~ controlling said first base station device using the first and second frequencies and controlling communications conducted by said third base station device using the first frequency but not controlling communications conducted by said third base station device using the second frequency; and

a second controller ~~accommodating~~ controlling said second base station device using the first and second frequencies and controlling communications conducted by said third base station device using the second frequency but not controlling communications conducted by said third base station device using the first frequency.

9. (original): The mobile communications system according to claim 8, wherein when a mobile station using the first frequency in the first wireless communications area moves from the first wireless communications area to the third wireless communications area, said third base station device communicates with the mobile station using the first frequency.

10. (original): The mobile communications system according to claim 8, wherein when a mobile station using the first frequency in the third wireless communications area moves from the third

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wireless communications area to the first wireless communications area, said first base station device communicates with the mobile station using the first frequency.

11. (currently amended): A mobile communications system, comprising:

a first base station device provided in a first wireless communications area to which at least a first frequency is allocated;

a second base station device provided in a second wireless communications area to which at least a second frequency is allocated;

a third base station device provided in a third wireless communications area, which is adjacent to the first and second wireless communications areas and to which the first and second frequencies are allocated for same multiple access scheme, wherein said third base station device is accommodated in different controllers for each allocated frequency.

12. (previously amended): A mobile communications system, comprising:

a first base station conducting wireless communications using at least a first frequency;

a second base station conducting wireless communications using at least a second frequency different from the first frequency;

a third base station, located adjacent to said first and second base stations, conducting wireless communications using at least the first and second frequencies;

a first base station controller managing at least the first frequency used in said first and third base stations, but does not manage the second frequency with respect to this base station;

and

a second base station controller managing at least the second frequency used in said second and third base stations but does not manage the first frequency with respect to this base

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station, wherein each of said first and second base station controllers further comprises controlling means for allocating the same frequency when there is a hand-off between base station devices managed by the corresponding base station controller.

13. (original): The mobile communications system according to claim 12, wherein each of said first and second base station controllers further comprises instructing means for instructing said first base station to use the first frequency when there is a handoff from said third base station to said first base station, and instructing said second base station to use the second frequency when there is a hand-off from said third base station to said second base station.

14. (previously amended): A base station device, located adjacent to a base station using a plurality of frequencies, that shares at least one of the plurality of frequencies, comprising controlling means for performing a soft hand-off process if there is a hand-off from this base station to the adjacent base station when the shared frequency is used, and performing a hard hand-off process between cells using the shared frequency if there is a hand-off from adjacent base station to this base station when a frequency other than the shared frequency is used in the adjacent base station.

15. (previously amended): A base station that is adjacent to at least first and second base stations, comprising:

a wireless unit using a part or all of frequencies used by the first base station as a first shared frequency;

a wireless unit using a part or all of frequencies used by the second base station as a second shared frequency; and

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controlling means for performing a soft hand-off using the first shared frequency if there is a hand-off from the first base station to this base station when the first shared frequency is used, performing a soft hand-off using the second shared frequency if there is a hand-off from the second base station to this base station when the second frequency is used, performing a hard hand-off process between cells for switching the frequency from the second shared frequency to the first shared frequency if there is a hand-off from this base station to the first base station when the second shared frequency is used, and performing a hard handoff process for switching the frequency from the first shared frequency to the shared second frequency if there is a hand-off from this base station to the second base station when the first shared frequency is used.

16. (original): A base station controller, connected to a plurality of base stations, for performing a soft hand-off with priority if there is a hand-off between the connected base stations and if communications conducted before and after the hand-off are controlled by this base station controller, comprising controlling means for controlling, for at least one of the plurality of base stations, only communications conducted using a part of frequencies used by the at least one of the plurality of base stations, and allocating one of the part of the frequencies if there is a handoff when a mobile station using a frequency that is not controlled by this base station controller in the at least one of the plurality of base stations moves to an area controlled by another base station to which this base station controller is connected.

17. (currently amended): A base station device, that is used in a mobile communications system including a first base station device provided in a first wireless communications area to which at least ~~the~~ a first frequency is allocated, a second base station device provided in a second wireless communications area to which at least a second frequency is allocated, a first controller

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accommodating the first base station device and a second controller accommodating the second base station device, and that is provided in a third wireless communications area which is adjacent to the first and second wireless communications areas and to which the first and second frequencies are allocated, wherein

data are transmitted to and received from a mobile station using the first frequency under the control of the first controller which manages the first frequency but does not manage the second frequency with respect to this base station; and

data are transmitted to and received from a mobile station using the second frequency under the control of the second controller which manages the second frequency but does not manage the first frequency with respect to this base station.

18. (original): A base station device, used in a mobile communications system comprising a first base station device provided in a first wireless communications area to which at least a first frequency is allocated, a second base station device provided in a second wireless communications area to which at least a second frequency is allocated and a third base station device provided in a third wireless communications area which is adjacent to the first and second wireless communications areas and to which the first and second frequencies are allocated, that accommodates at least second and third base station devices, comprising:

a base station management table for registering base station devices to be controlled for each frequency allocated to corresponding wireless communications area; and

controlling means for controlling the second and third base stations based on information registered in said base station management table.

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19. (currently amended): A communications control method in a mobile communications system including a first base station device provided in a first wireless communications area to which at least a first frequency is allocated, a second base station device provided in a second wireless communications area to which at least a second frequency is allocated, a third base station device provided in a third wireless communications area which is adjacent to the first and second wireless communications areas and to which the first and second frequencies are allocated, a first controller ~~accommodating~~ controlling the first base station device using the first frequency and a second controller ~~accommodating~~ controlling the second base station device using the second frequency, wherein

the first controller controls communications conducted by the third base station device using the first frequency but not controlling communications conducted by said third base station device using the second frequency; and

the second controller controls communications conducted by the third base station device using the second frequency but not controlling communications conducted by said third base station using the first frequency.

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